

The Milwaukee Cleaner River Conference

Review of The City's
Stormwater Management
Plan Application and
Procedures

Emad Nadi

SWMP Major Elements

- Plans and Drawings
- Calculations
- Form (Application)

SWMP Application

- Five pages plus
- Sixteen Parts
- All parts must be addressed
- Must be prepared and submitted by a Professional Engineer

- www.ci.mil.wi.us
- enadi@mpw.net
- Call at 414.286.3267

**STORM WATER
MANAGEMENT PLAN
SUBMITTAL CHECKLIST**
PROJECT NAME: _____

| 1) PLEASE TYPE OR PRINT LEGIBLY | |
|---|---|
| NAME OF OWNER | NAME OF PREPARER |
| FIRM NAME | FIRM NAME |
| STREET ADDRESS | STREET ADDRESS |
| CITY, STATE, ZIP | CITY, STATE, ZIP |
| TELEPHONE NUMBER / FAX NO. () / () | TELEPHONE NUMBER / FAX NO. () / () |
| NAME OF CONTACT | NAME OF CONTACT |

2)

| | | |
|---------------------------------------|----------------------------------|--|
| DEVELOPER <input type="checkbox"/> | CITY <input type="checkbox"/> | A. GENERAL INFORMATION 1. SITE OWNERS NAME, ADDRESS, ETC. 2. PROJECT LOCATION 3. PROJECT LOCATION MAP 4. OTHER PERTINENT INFORMATION |
| <input type="checkbox"/> | <input type="checkbox"/> | B. EXISTING SITE CONDITIONS MAP & PROPOSED SITE ALTERATIONS MAP 1. VEGETATION 2. TOPOGRAPHY 3. IMPERVIOUS 4. STRUCTURES / BUILDINGS 5. FLOODPLAINS 6. SURFACE WATERS 7. LAND USE 8. EXPOSED MATERIAL AREAS |
| <input type="checkbox"/> | <input type="checkbox"/> | C. EXISTING DRAINAGE CONDITIONS MAP & PROPOSED DRAINAGE CONDITIONS MAP 1. PONDING / PERCOLATION 2. DISCHARGE LOCATIONS TO SITE 3. STORM SEWER SYSTEMS 4. DISCHARGE LOCATIONS FROM SITE 5. DRAINAGE AREA BOUNDARIES 6. SURFACE WATERS RECEIVING STORMWATER DISCHARGE |
| <input type="checkbox"/> | <input type="checkbox"/> | D. HYDROLOGIC / HYDRAULIC CALCULATIONS 1. ANALYSIS METHODS USED 2. LIMITING DISCHARGE CRITERIA |
| <input type="checkbox"/> | <input type="checkbox"/> | E. BEST MANAGEMENT PRACTICES |
| <input type="checkbox"/> | <input type="checkbox"/> | F. MAINTENANCE PLAN |
| <input type="checkbox"/> | <input type="checkbox"/> | G. ASSURANCES 1. IRREVOCABLE LETTER OF CREDIT 2. CERTIFIED CHECK 3. SURETY BOND |

Will be submitted under separate cover.

STORM WATER
MANAGEMENT PLAN
APPLICATION FORM
PROJECT NAME: _____

| 1) PLEASE TYPE OR PRINT LEGIBLY | |
|---|--|
| NAME OF OWNER | NAME OF PREPARER |
| FIRM NAME | FIRM NAME |
| STREET ADDRESS | STREET ADDRESS |
| CITY, STATE, ZIP | CITY, STATE, ZIP |
| TELEPHONE NUMBER / FAX NO. () / () | TELEPHONE NUMBER / FAX NO. () / () |
| NAME OF CONTACT | NAME OF CONTACT |
| 2) PROVIDE FULL LEGAL DESCRIPTION OF PROPERTY | |
| TOTAL ACREAGE | |
| 3) FLOODPLAIN | |
| IS THE SITE LOCATED IN A FLOODPLAIN? | IF YES: HAS A FLOODPLAIN IMPACT EVALUATION BEEN SUBMITTED TO THE DEPT. OF CITY DEVELOPMENT (SEE SECTIONS 255-710 THROUGH 255-720 OF THE CITY OF MILWAUKEE ZONING CODE) |
| <input type="checkbox"/> YES <input type="checkbox"/> NO | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| IF YES, SOURCE: | |
| 4) ILLICIT DISCHARGES AND ILLEGAL CONNECTIONS | |
| DO ILLICIT DISCHARGES AND ILLEGAL CONNECTIONS EXIST AT THE SITE? | LIST TESTING METHODS USED |
| <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | |
| IF YES, PLEASE DESCRIBE: | |
| 5) SKETCH SITE LOCATION IDENTIFYING MAJOR ROADS, SURFACE WATER AREAS, AND OTHER LANDMARKS | |
| <div>See attached in Appendix B</div> <div><p>May St.</p><p>Project</p><p>Far Rd.</p><p>N</p></div> | |

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| | |
|--|--|
| <p>6) DESCRIBE PROPOSED SITE ALTERATIONS (INCLUDE SITE USE)</p> <p>IS THIS SUBJECT SITE PART OF A LARGER DEVELOPMENT PLAN? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF YES, LIST TOTAL ACREAGE OF ENTIRE PLAN: _____</p> <p>Existing Impervious Surface _____</p> <p>Proposed Impervious Surface _____</p> | <p>LIST S.I.C. CODE(S) FOR PROPOSED SITE</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
| <p>7) LIST ALL KNOWN SPILLS THAT HAVE OCCURRED WITHIN THE LAST FIVE YEARS (PLEASE ATTACH ANY COPIES OF ENVIRONMENTAL AUDIT REPORTS AND POLICE OR FIRE DEPT. REPORTS)</p> | |
| <p>8) DESCRIBE EXISTING SOIL TYPES (REFER TO AVAILABLE SOIL MAPS AND/OR RESULTS OF SOIL BORINGS)</p> | |
| <p>9) DESCRIBE EXISTING GROUNDWATER LEVELS (REFER TO AVAILABLE SOIL BORING DATA)</p> | |

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| 10) | <p>DESCRIBE POTENTIAL SOURCES OF STORM WATER RUNOFF POLLUTION (REFER TO MSDS FOR MATERIALS WITH OUTDOOR EXPOSURE)</p> <p>EXISTING CONDITIONS:</p> <p>PROPOSED CONDITIONS:</p> | | | | | | | | | | | | | | | | |
|----------|--|-------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------|--------|--|--|--|---------|--|--|--|----------|--|--|--|
| 11) | <p>DESCRIBE CURRENT WATER QUALITY AND CLASSIFICATION, IF ANY, OF RECEIVING SURFACE WATERS ON OR ADJACENT TO THE SITE (CONTACT WIS. DNR AND SEWRPC FOR CURRENT INFORMATION ON AREA SURFACE WATERS)</p> | | | | | | | | | | | | | | | | |
| 12) | <p>DESCRIBE PREDICTED IMPACTS OF PROPOSED SITE ALTERATIONS ON:</p> <table style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 20%; text-align: center;"><u>Existing</u></th><th style="width: 20%; text-align: center;"><u>Proposed (w/o Detention)</u></th><th style="width: 30%; text-align: center;"><u>Proposed (w/Detention)</u></th></tr></thead><tbody><tr><td style="padding-top: 10px;">2-Year</td><td></td><td></td><td></td></tr><tr><td>10-Year</td><td></td><td></td><td></td></tr><tr><td>100-Year</td><td></td><td></td><td></td></tr></tbody></table> <p>STORM WATER RUNOFF QUALITY</p> <p>GROUNDWATER LEVELS</p> | | <u>Existing</u> | <u>Proposed (w/o Detention)</u> | <u>Proposed (w/Detention)</u> | 2-Year | | | | 10-Year | | | | 100-Year | | | |
| | <u>Existing</u> | <u>Proposed (w/o Detention)</u> | <u>Proposed (w/Detention)</u> | | | | | | | | | | | | | | |
| 2-Year | | | | | | | | | | | | | | | | | |
| 10-Year | | | | | | | | | | | | | | | | | |
| 100-Year | | | | | | | | | | | | | | | | | |

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13) WHY SHOULD THIS SITE BE CONSIDERED FOR WAIVER OF THE STORM WATER MANAGEMENT PLAN REQUIREMENTS?

14) DESCRIBE PROPOSED STRUCTURAL AND NON-STRUCTURAL BMPs FOR USE ON THIS PROJECT
(INDICATE PLAN SHEET NO(S) FOR STRUCTURAL BMPs)

Structural BMP's

Non-Structural BMP's

15) PROVIDE ESTIMATES FOR CONSTRUCTION AND MAINTENANCE COSTS OF PROPOSED BMPs:

Structural BMP's Total:

Non-Structural BMP's Total:

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| | |
|--|--|
| <p>16) CERTIFICATION STATE OF WISCONSIN - MILWAUKEE COUNTY</p> <p>I, _____, a registered professional engineer, certify that:</p> <ol style="list-style-type: none"> 1. I have prepared the Storm Water Management Plan for the aforedescribed property. 2. the Storm Water Management Plan complies with the provisions of Chapter 120 of the Milwaukee Code of Ordinances and State Law. 3. and when required appropriate storm water discharge permits have or will be obtained from the Wisconsin Department of Natural Resources and/or the United States Environmental Protection Agency. <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>_____ signature</p> <p>_____ typed name</p> </div> <div style="width: 45%;"> <p>_____ date</p> <p>_____ license no.</p> </div> </div> | <p style="text-align: center;">STAMP WITH SIGNATURE</p> |
|--|--|

| <u>CITY APPROVALS (FOR CITY USE ONLY)</u> | |
|--|--|
| <p>ENVIRONMENTAL ENGINEERING SECTION RECOMMENDATION</p> <p>RECOMMENDED</p> <p style="text-align: right;">_____ REVIEWER</p> <p style="text-align: right;">_____ ENGINEER IN CHARGE</p> <p style="text-align: right;">_____ DATE</p> <p>OFFICE OF CITY ENGINEER APPROVAL</p> <p>APPROVED</p> <p style="text-align: right;">_____ CITY ENGINEER</p> <p style="text-align: right;">_____ DATE</p> | <div style="margin-bottom: 10px;"> <input type="checkbox"/> IRREVOCABLE LETTER OF CREDIT </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> CERTIFIED CHECK </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> SURETY BOND </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> TO BE DETERMINED PRIOR TO ISSUANCE OF BUILDING PERMIT </div> <p>SIGNATURE OF DEVELOPMENT CENTER PERSONNEL</p> <p>_____</p> <p>PERMIT NO. _____</p> <p>_____</p> |

Questions?